**INDEX OF TPAS PLANS**

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**GOVERNING STANDARDS AND SPECIFICATIONS:**
Florida Department of Transportation, 2017 Design Standards and revised Index Drawings as appended herein, and 2017 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

For Design Standards click on the "Design Standards" link at the following web site:
http://www.dot.state.fl.us/redesign/

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
http://www.dot.state.fl.us/specificationsoffice/

**STATE OF FLORIDA**

**DEPARTMENT OF TRANSPORTATION**

**CONTRACT PLANS**

**FINANCIAL PROJECT ID 4403021-52-01**

**(FEDERAL FUNDS)**

**TRUCK PARKING AVAILABILITY SYSTEMS (TPAS)**

**INTELLIGENT TRANSPORTATION SYSTEM PLANS**

**TRUCK PARKING AVAILABILITY SYSTEMS (TPAS) PLANS**

**ENGINEER OF RECORD:**

**P.E. NO.:**

**FDOT PROJECT MANAGER:**

**KEY SHEET REVISIONS**

<table>
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<tr>
<th>DATE</th>
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**NOTE:** The scale of these plans may have changed due to reproduction.
1. The locations of the utilities shown in the plans are based on limited investigation techniques, and make-ups from utility owners. All utilities should be considered approximate only.

2. The contractor shall notify utility owners listed through Sunshine State One Call of Florida (811) two business days in advance of beginning construction on the job site.

3. Fiber optic and power pull boxes and conduit shall be located within 100 feet of the device they support. If device locations are approximate and may require relocation by the project engineer, the device relocations shall occur for any reason. The pull boxes and conduit supporting that device shall be relocated and/or extended.

4. Install fiber optic conduit for communication to devices as shown in the plans and in accordance with all foot standards for conduit installation. The contractor shall furnish and install a tone wire system, duct plugs, conduit couplers and cable route markers in addition to conduit installation.

5. The conduit shall be sealed with the specified duct plug at the time of conduit installation and after final fiber installation.

6. The contractor shall hand dig (soft dig) to a depth of four (4) feet where utilities are in conflict prior to use of a mechanical auger. Any potential conflicts shall be reported to the project engineer immediately.

**LEGEND**

- **GROUND SENSORS**
- **REPEATER**
- **ACCESS POINT**
- **DISTRIBUTION ZONE**
- **MULTI-POST STATIC SIGN W/ VMS PANEL**
- **BASE MOUNT CABINET**
- **POLE MOUNT CABINET**
- **PULL BOX**
- **FIBER OPTIC PULL BOX**
- **SPICE VAULT**
- **POWER SERVICE**
- **POLE**
- **DMS**
- **WIM SYSTEM**
- **CONDUIT, OPEN TRENCH**
- **CONDUIT, DIRECTIONAL BORE**
- **FIBER OPTIC RUN**
- **POWER RUN**

**GENERAL NOTES**

- **CONFLICTS SHALL BE REPORTED TO THE PROJECT ENGINEER IMMEDIATELY.**
- **UTILITIES ARE IN CONFLICT PRIOR TO USE OF A MECHANICAL AUGER. ANY POTENTIAL CONFLICTS SHALL BE REPORTED TO THE PROJECT ENGINEER IMMEDIATELY.**

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- **AT&T**
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  - PROPOSED
  - EXISTING

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  - RICK MARINO
  - 321-695-6049
TRUCK PARKING AVAILABILITY SIGN WITH 3-DIGIT EMBEDDED DMS AT WB MM 264.90 EAST OF WEIGHT STATION 20632 (MM 264)

- COMMUNICATION FROM NEAREST ITS SPLICE VAULT
- POLE MOUNTED NEMA CABINET
- POWER FROM SOLAR PANEL
- 3-DIGIT EMBEDDED DMS
- PROPANE TANK

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PURPOSE ONLY
FOR ILLUSTRATION

SEE SHEET IT-07 FOR DETAILS

EXISTING ITS INFRASTRUCTURE REFERENCE
- FPID 213272-8-52-01

PARCEL DERIVED
- R/W LINE
- 3-2" CONDUIT (OPEN TRENCH)
- 3-2" CONDUIT (DIRECTIONAL BORE)

- ELECTRIC PULL BOX (TYP.)
- ELECTRIC PULL BOX (TYP.)
- 4 FO TERMINATORS
- 1 FOC CONNECTOR PANEL
- 1 BUFFER TUBE FAN OUT KIT
- 1 FOC PATCH PANEL
- 1 MEDIA CONVERTER
- 1 MULTI POST STATIC SIGN WITH EMBEDDED DMS

- FIBER OPTIC PULL BOX (TYP.)
- SPARE
- 2-12 STRAND FOC
- POWER

SEE SHEET IT-08 FOR DETAILS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
TRUCK PARKING AVAILABILITY SYSTEM
MADISON COUNTY, DISTRICT 2
TRAS SIGN 20632
WESTBOUND MILE MARKER 264.90

ROAD NO. 1-10
COUNTY MADISON
FINANCIAL PROJECT NO. 440302-1-52-01
SHEET NO. IT-068
I-10 WB
- FPID 213272-8-52-01
EXISTING ITS INFRASTRUCTURE REFERENCE
I-10 EB
WESTBOUND MILE MARKER 265
REST AREA 20102 (18 SPACES)
MADISON COUNTY, FDOT DISTRICT 2
TRUCK PARKING AVAILABILITY SYSTEM

IT-08

FIBER SPLICE VAULT (EXISTING)
4 FO TERMINATIONS
1 FOC CONNECTOR PANEL
1 BUFFER TUBE FAN OUT KIT
1 FOC PATCH PANEL
1 ETHERNET SWITCH
1 MEDIA CONVERTER
1 POLE
1 TYPE 336S ITS FIELD CABINET NEMA 3R
1 REPEATER
1 ACCESS POINT
1 DOME CCTV CAMERA (IP HD CAMERA)

POWER CONDUIT WITH CONDUCTORS (EXISTING)
ELECTRIC PULL BOX (TYP.)
- SPARE
- 1-12 STRAND FOC
- POWER
3-2" CONDUIT (OPEN TRENCH)
3-2" CONDUIT (DIRECTIONAL BORE)
FIBER PULL BOX (TYP.)
- SPARE
- 1-12 STRAND FOC
- POWER
3-2" CONDUIT (OPEN TRENCH)
TO THE ACCESS POINT
FROM THE GROUND SENSORS
FOR TRANSMISSION OF MESSAGES

IN-GROUND SENSORS (TYP.)
WILL HAVE AN ARRAY OF
EACH TRUCK PARKING STALL

CCTV
MVDS
EXISTING ITS POWER SERVICE DROP (TYP.)
EXISTING ELECTRICAL PULL BOX (TYP.)
EXISTING FIBER PULL BOX (TYP.)
EXISTING ITS FIBER TRUNKLINE
EXISTING ITS POWER SERVICE DROP (TYP.)
EXISTING ITS INFRASTRUCTURE REFERENCE
FPID 213272-8-52-01

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
TRUCK PARKING AVAILABILITY SYSTEM
HADISON COUNTY, FOOT DISTRICT 2
WESTBOUND MILE MARKER 265
SHEET NO. IT-08

FOR ILLUSTRATION PURPOSE ONLY

REVISIONS
EXISTING ITS INFRASTRUCTURE REFERENCE
- FPID 41910-1-52-01

3 REPEATER (TYP.)
3 TYPE II POLE (TYP.)
FOR TRANSMISSION OF MESSAGES
FROM THE GROUND SENSORS
TO THE ACCESS POINT

1 ACCESS POINT (TYP.)
1 TYPE II POLE (TYP.)
1 NEMA 3R ENCLOSURE
1 FOC CONNECTOR PANEL
1 MEDIA CONVERTER
1 FOC PATCH PANEL
1 BUFFER TUBE FAN OUT KIT
4 TS TERMINATORS

1-12 STRAND FOC
2-2" CONDUIT (DIRECTIONAL BORE)
IN-GROUND SENSORS (TYP.)
WILL HAVE AN ARRAY OF
IN-GROUND SENSORS (TYP.)

2-2" CONDUIT (OPEN TRENCH)
- POWER
- SPARE

SEE SHEET IT-11 FOR DETAILS
ITS POWER SERVICE
SUPPLIED FROM THE EXISTING
120/240 VAC SINGLE PHASE POWER
I-75 NB

NORTHBOUND MILE MARKER 413
REST AREA 20161 (49 SPACES)
COLUMBIA COUNTY, FDOT DISTRICT 2
TRUCK PARKING AVAILABILITY SYSTEM

IT-13

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

COLUMBIA COUNTY, FOOT DISTRICT 2
REST AREA 20161 (49 SPACES)
NORTHBOUND MILE MARKER 413

FPID 427474-1-52-01
EXISTING ITS INFRASTRUCTURE REFERENCE

SEE SHEET IT-14 FOR DETAILS

FOR ILLUSTRATION PURPOSE ONLY

[Diagram showing truck parking stall infrastructure, including fiber splice vault, power conduit, and various equipment installations.]
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

TRUCK PARKING AVAILABILITY SYSTEM
COLUMBIA COUNTY, FDOT DISTRICT 2
REST AREA 20162 (49 SPACES)
SOUTHBOUND MILE MARKER 413

SOUTHBOUND MILE MARKER 413
REST AREA 20162 (49 SPACES)
COLUMBIA COUNTY, FDOT DISTRICT 2
TRUCK PARKING AVAILABILITY SYSTEM
IT-14

SEE SHEET IT-13 FOR DETAILS
EXISTING ITS INFRASTRUCTURE REFERENCE
- FPID 427474-1-52-01
- SPARE
- POWER
- 2-12 STRAND FOC
- 3-2" CONDUIT (OPEN TRENCH)
- 3-2" CONDUIT (DIRECTIONAL BORE)
- FPID 427474-1-52-01
- EXISTING ITS INFRASTRUCTURE REFERENCE
- SPARE
- POWER
- 2-12 STRAND FOC
- 3-2" CONDUIT (OPEN TRENCH)
- 3-2" CONDUIT (DIRECTIONAL BORE)

FOR ILLUSTRATION PURPOSE ONLY
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<th>COUNTY</th>
<th>DATE</th>
<th>DESCRIPTION</th>
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<tr>
<td>HAMILTON</td>
<td>440302-1-52-01</td>
<td>northbound mile marker 443.68</td>
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</table>

- Truck parking availability system
  - South of weigh station 20621 (MM 449)
  - Adjust sign locations per MUTCD
  - Sign spacing requirements

- Investigate existing ITS infrastructure reference
  - FPID 427474-1-52-01

- Existing its power service drop (Typ.)
  - Power conduit with conductors
  - Electrical pull box (Typ.)

- Install new power and communication cables using existing conduit entering into cabinet
  - 3-Digit embedded DMS

- Adjust sign locations per MUTCD
  - South of weigh station 20621 (MM 449)
  - 3-Digit embedded DMS at NB MM 443.68

- Truck parking availability sign with embedded DMS
  - Multi-post static sign with embedded DMS
  - Media converter
  - Fiber patch panel
  - Buffer tube fan out kit
  - Fiber connector panel
  - Fiber terminators

- Fiber splice vault
  - Power splice vault

- R/W line
  - Parcel derived

- Power conduit with conductors (Existing)
  - Power pull box
  - Intercept existing using existing conduit entering into cabinet

- Electrical pull box (Typ.)
  - Existing
  - Fiber trunkline (Existing)
  - Power conduit with conductors (Existing)

- Power pull box (Typ.)
  - Existing

- Fiber splice vault
  - Power splice vault

- R/W line
  - Parcel derived

- Power conduit with conductors (Existing)
  - Existing its power service drop (Typ.)

- 3-2 conduit (open trench)
  - Fiber
  - 1-12 strand foc splice

- Multi-post static sign with embedded DMS
  - 4 FO terminators
  - 1 FOC connector panel
  - 1 buffer tube fan out kit
  - 1 FOC patch panel
  - 1 media converter
  - 1 multi-post static sign with embedded DMS

- Fiber splice vault
  - Power splice vault

- R/W line
  - Parcel derived

- Power conduit with conductors (Existing)
  - Existing its power service drop (Typ.)

- Power pull box (Typ.)
  - Existing